

Pump Performance Datasheet

Customer	:	Quote Number / ID	: 1075123
Customer ref. / PO	:	Model	: 15951 LC
Tag Number	: 001	Stages	: 1
Service	:	Based on curve number	: RC1949-SS Rev 0
Quantity	: 1	Basic model number	: -
		Date last saved	: 02/06/2020 12:21 PM

Operating Conditions		Liquid	
Flow, rated	: 180.0 USgpm	Liquid type	: Cold Water
Differential head / pressure, rated (requested)	: 260.0 ft	Additional liquid description	:
Differential head / pressure, rated (actual)	: 260.5 ft	Solids diameter, max	: 0.00 in
Suction pressure, rated / max	: 0.00 / 0.00 psi.g	Solids concentration, by volume	: 0.00 %
NPSH available, rated	: Ample	Temperature, max	: 68.00 deg F
Frequency	: 60 Hz	Fluid density, rated / max	: 1.000 / 1.000 SG

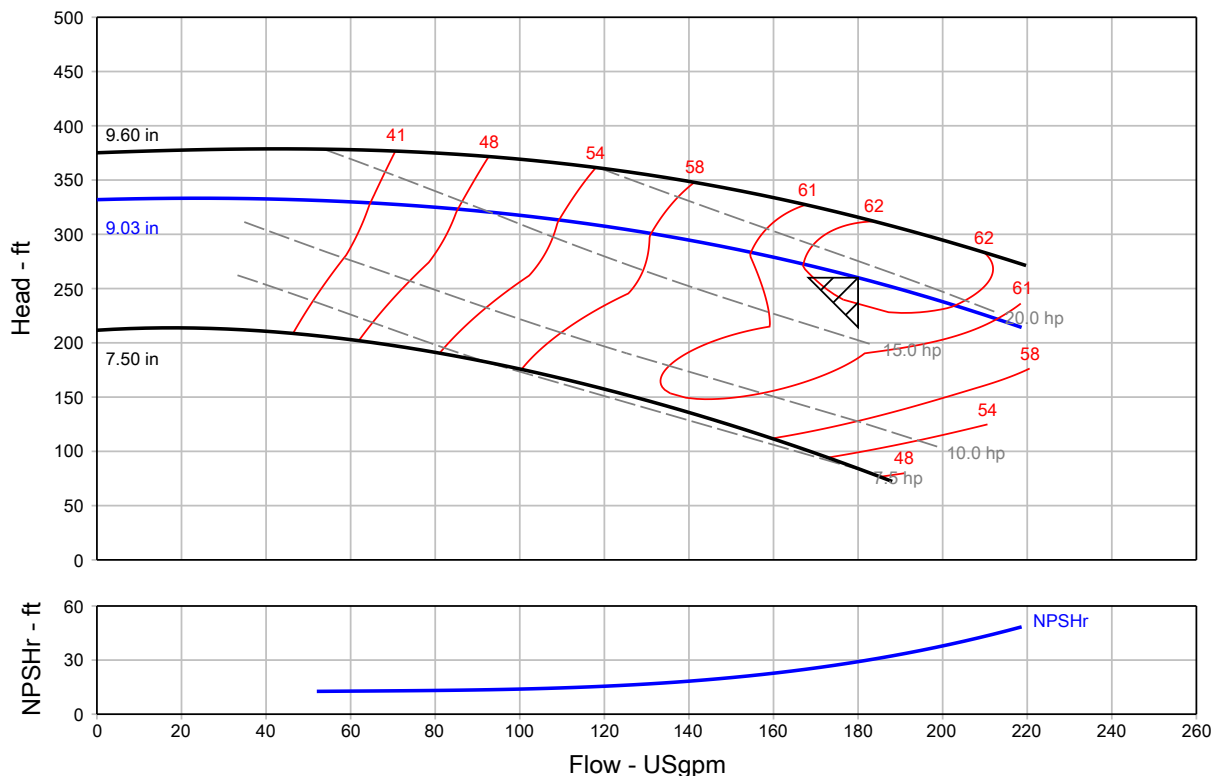
Performance		Material	
Speed, rated	: 3530 rpm	Material selected	: Cast iron

Impeller diameter, rated	: 9.03 in		
Impeller diameter, maximum	: 9.60 in		
Impeller diameter, minimum	: 7.50 in		

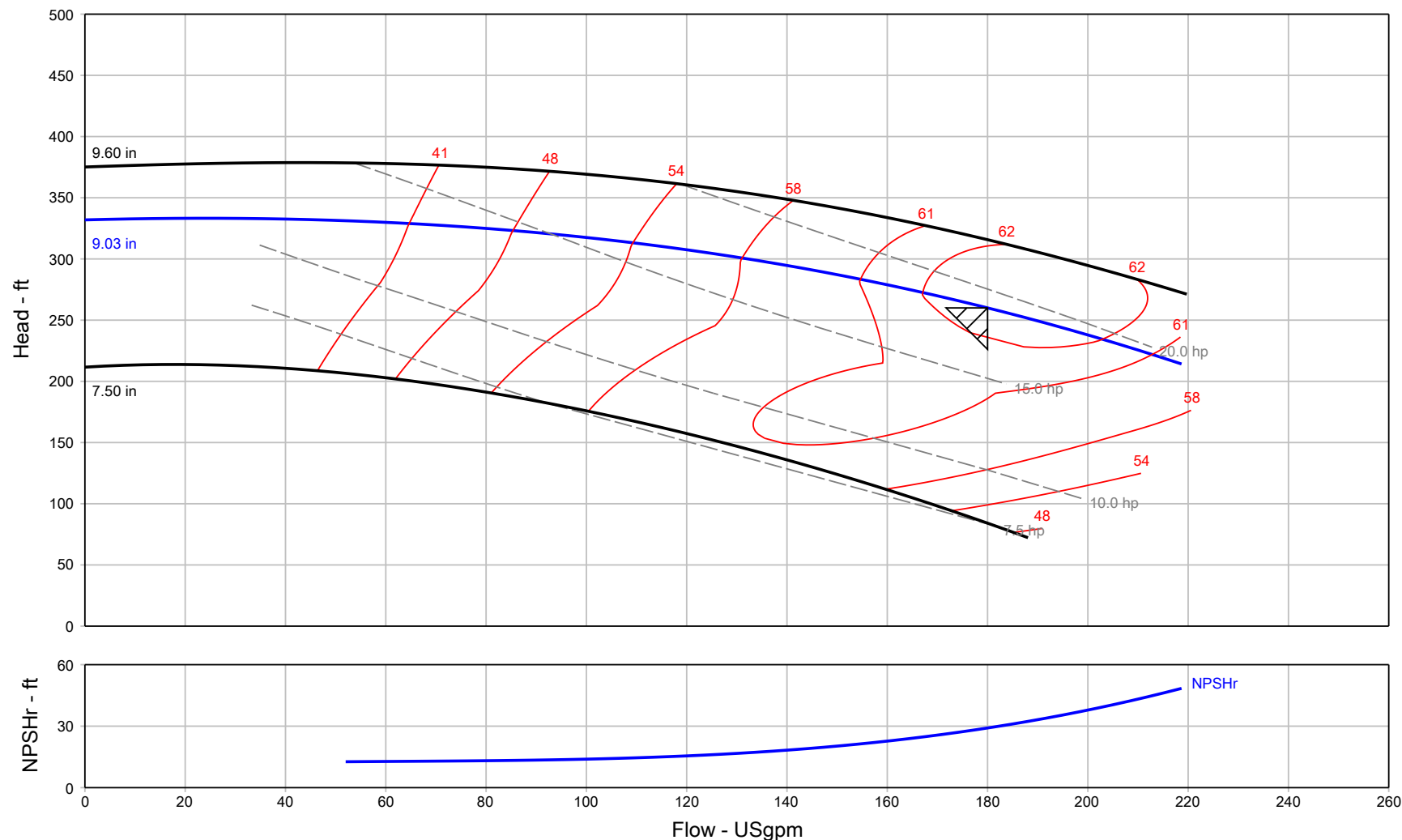
Efficiency	: 62.55 %		
NPSH required / margin required	: 29.11 / 0.00 ft		
nq (imp. eye flow) / S (imp. eye flow)	: 13 / 65 Metric units		
MCSF	: 32.26 USgpm		
Head, maximum, rated diameter	: 333.2 ft		
Head rise to shutoff	: 27.65 %		
Flow, best eff. point	: 185.8 USgpm		
Flow ratio, rated / BEP	: 96.89 %		
Diameter ratio (rated / max)	: 94.06 %		
Head ratio (rated dia / max dia)	: 82.36 %		
Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00		
Selection status	: Acceptable		

Energy Indexes		Driver & Power Data (@Max density)	
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PEI (CL)	: 0.92	Motor sizing specification	: Max power (non-overloading)
ER (CL)	: 8	Margin over specification	: 0.00 %
		Service factor	: 1.00
		Power, hydraulic	: 11.82 hp
		Rated power (based on duty point)	: 18.89 hp
		Max power (non-overloading)	: 19.66 hp
		Nameplate motor rating	: 20.00 hp / 14.91 kW

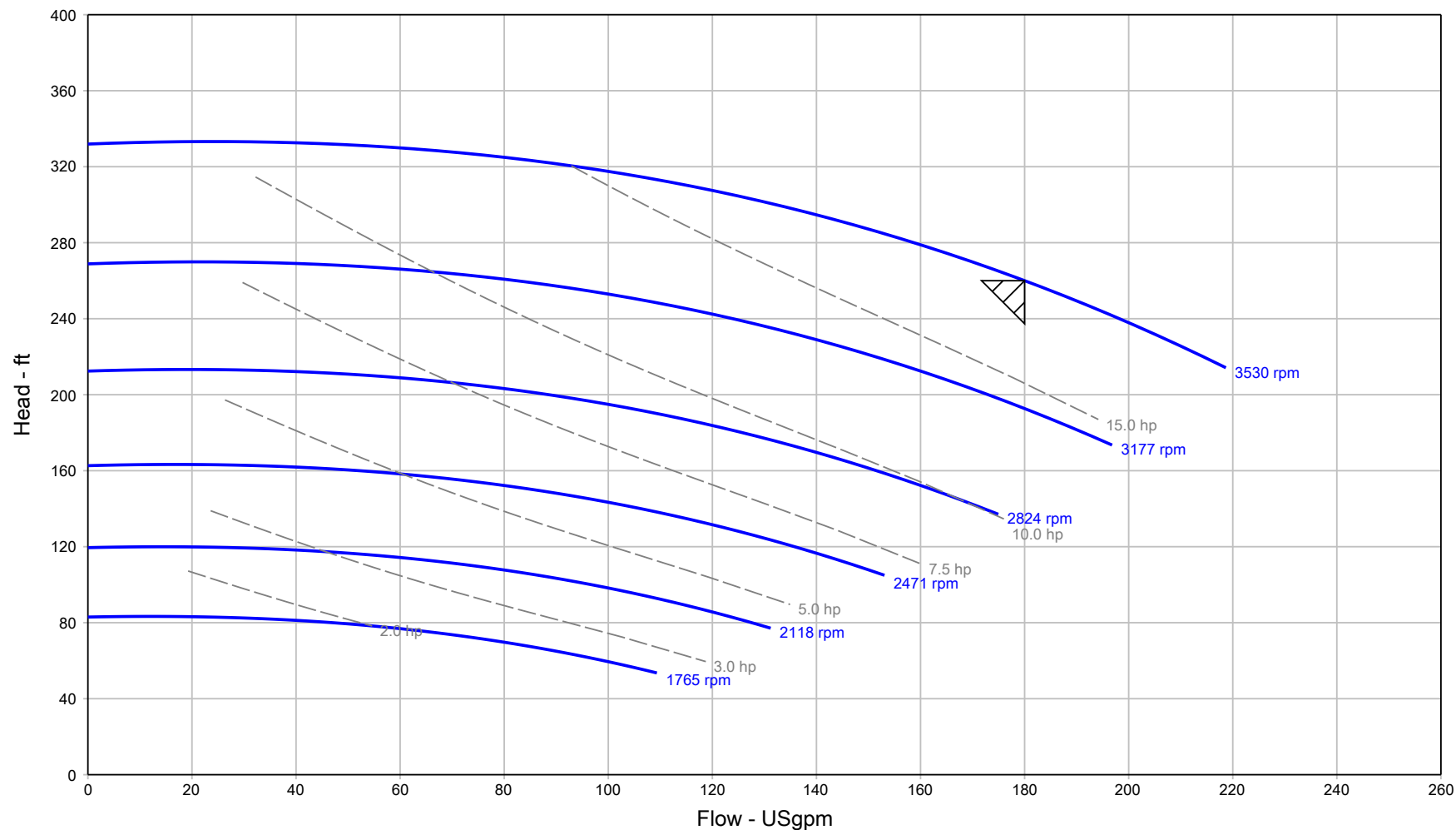


Pump Performance Curve



Project name	: Default	Tag Number	: 001	Flow, rated	: 180.0 USgpm
Consulting engineer	:	Service	:	Differential head / pressure, rated	: 260.0 ft
Customer	:	Model	: 15951 LC	Rated power (based on duty point)	: 18.89 hp
Customer ref. / PO	:	Quantity	: 1	Max power (non-overloading)	: 19.66 hp
Quote Number / ID	: 1075123	Quoted By (Sales Office)	: PFC EQUIPMENT INC	Efficiency	: 62.55 %
Date last saved	: 02/06/2020 12:21 PM	Quoted By (Sales Engineer)	: Corey Nath	Impeller diameter, rated	: 9.03 in
Based on curve number	: RC1949-SS Rev 0	Stages	: 1	PEI (CL)	: 0.92
		Speed, rated	: 3530 rpm	ER (CL)	: 8

Multi-Speed Performance Curve



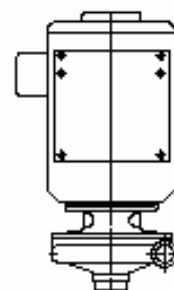
Project name	: Default	Tag Number	: 001	Speed, rated	: 3530 rpm
Consulting engineer	:	Service	:	Flow, rated	: 180.0 USgpm
Customer	:	Model	: 15951 LC	Differential head / pressure, rated	: 260.0 ft
Customer ref. / PO	:	Quantity	: 1	Fluid density, rated / max	: 1.000 / 1.000 SG
Quote Number / ID	: 1075123	Quoted By (Sales Office)	: PFC EQUIPMENT INC	Viscosity	: 1.00 cP
Date last saved	: 02/06/2020 12:21 PM	Quoted By (Sales Engineer)	: Corey Nath	Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00
		Stages	: 1	Based on curve number	: RC1949-SS Rev 0

Construction Datasheet

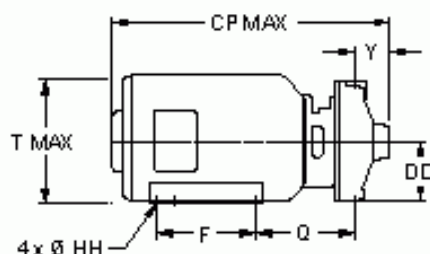
Project name	: Default	Tag Number	: 001
Consulting engineer	:	Service	:
Customer	: PFC EQUIPMENT INC	Model	: 15951 LC
Customer ref. / PO	:	Quantity	: 1
Quote Number / ID	: 1075123	Quoted By (Sales Office)	: PFC EQUIPMENT INC
Date last saved	: 02/06/2020 12:21 PM	Quoted By (Sales Engineer)	: Corey Nath
Construction		Motor Information	
Nozzle	Size (in.)	Nozzle Configuration	Pos'n
Suction	2	NPS	End
Discharge	1.5	NPS	Top
Orientation / Configuration	: Horizontal	Manufacturer	: Baldor
Rotation	: Clockwise	Frame Size	: 256JM
Wear Ring Configuration	: Single - Case	Power	: 20.00 hp
Discharge Elbow Size	: -	RPM	: 3600 rpm
Subplate	: -	Enclosure	: TEFC
Sump Depth (feet)	: -	Operating Power Supply	: 230/460/3/60
Bearing Frame	: -	Efficiency	: Premium
Bearing Frame Foot	: -	Service factor	: 1.15
Bearing Type (Radial/Thrust)	: In motor	Motor Application	: General Purpose
Bearing Lubrication	: -	Motor Options/Accessories	: -
Thrust Bearing	: -	Cord Length (feet)	: -
Intermediate Bearing	: -	Materials	
Lower Bearing	: -	Case	: Cast Iron, ASTM A48 - Class 30
Bearing Housing Accessories	: -	Motor Bracket	: Cast Iron, ASTM-A48, CL 30
PACO Construction code	: 10-15951-140008-2851P	Impeller	: Stainless Steel, AISI-304 (H304)
Baseplate, Coupling and Guard		Impeller Cap Screw and Washer	: Stainless Steel, AISI-303
Baseplate	: Not Applicable	Impeller Key	: Stainless Steel, AISI 316
Drip Pan	: -	Case wear ring	: Tin Bronze, ASTM B584-90500 (B18)
Coupling	: -	Impeller wear ring	: -
Guard	: Not Applicable	Pump Shaft	: Steel, AISI-1040
Seal & Packing Construction		Sleeve	: Bronze, III932, C89835
Sealing Method	: Single Seal, Type 21S	Line Shaft	: -
Seal Material	: Buna Carbon Ceramic SS-Spring and Hardware	Column	: -
Packing Gland	: -	Discharge Pipe	: -
Lantern Ring	: -	Discharge Elbow	: -
Recirculation Lines	: None	Suction Elbow	: -
Weights (Approx.)		Subplate	: -
Pump	: 70.00 lb	Hardware	: Steel, Grade 5
Baseplate	: -	O Rings	: Buna N
Driver	: 267.0 lb	Pump Coatings	: Standard Manufacturer's Paint
Estimated Shipping gross weight	: 337.0 lb		

General Arrangement

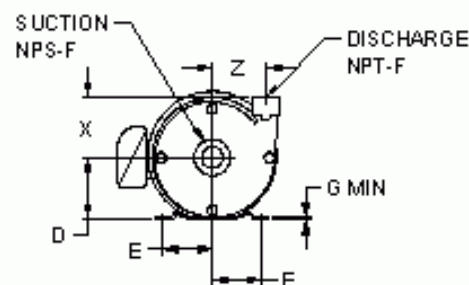
Project name	: Default	Tag Number	: 001
Consulting engineer	:	Service	:
Customer	: PFC EQUIPMENT INC	Model	: 15951 LC
Customer ref. / PO	:	Quantity of pumps	: 1
Quote Number / ID	: 1075123	Quoted By (Sales Office)	: PFC EQUIPMENT INC
Date last saved	: 02/06/2020 12:21 PM	Quoted By (Sales Engineer)	: Corey Nath



PLAN



SIDE VIEW



END VIEW

NOT FOR CONSTRUCTION, Unless certified and referenced on order

Units	Frame	Suct(in)	Disch(in)	CP	D	DD	E	F	G	HH	Q	T	X	Y	Z	Weight ea
inches	256JM	2	1.5	29.00	6.25	6.00	5.00	10.00	0.25	0.53	9.88	11.50	6.00	3.62	5.38	337.0

Conditions of Service				Motor Data			
Flow: 180.0 USgpm	Fluid: Cold Water	HP: 20	Encl: TEFC	Phase: 3	Efficiency: Premium		
TDH: 260.0 ft	Temp.: 68.00 deg F	RPM: 3530 rpm	Hz: 60	Voltage: 230/460	S.F.: 1.15		